

Figure 1a
Basic Adaptive FIR Filter Structure

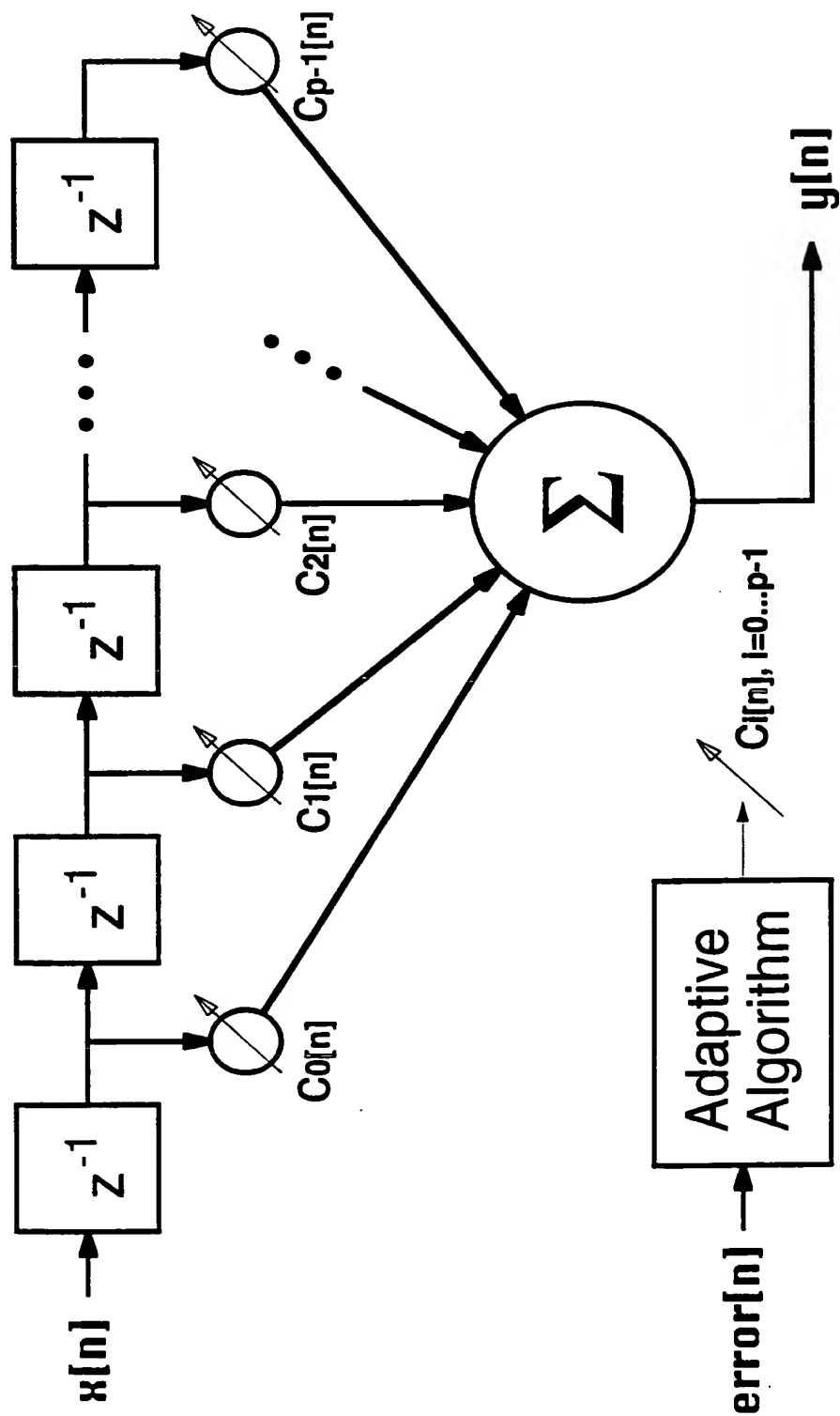


Figure 1b
Echo Cancellation Using an Adaptive FIR Filter

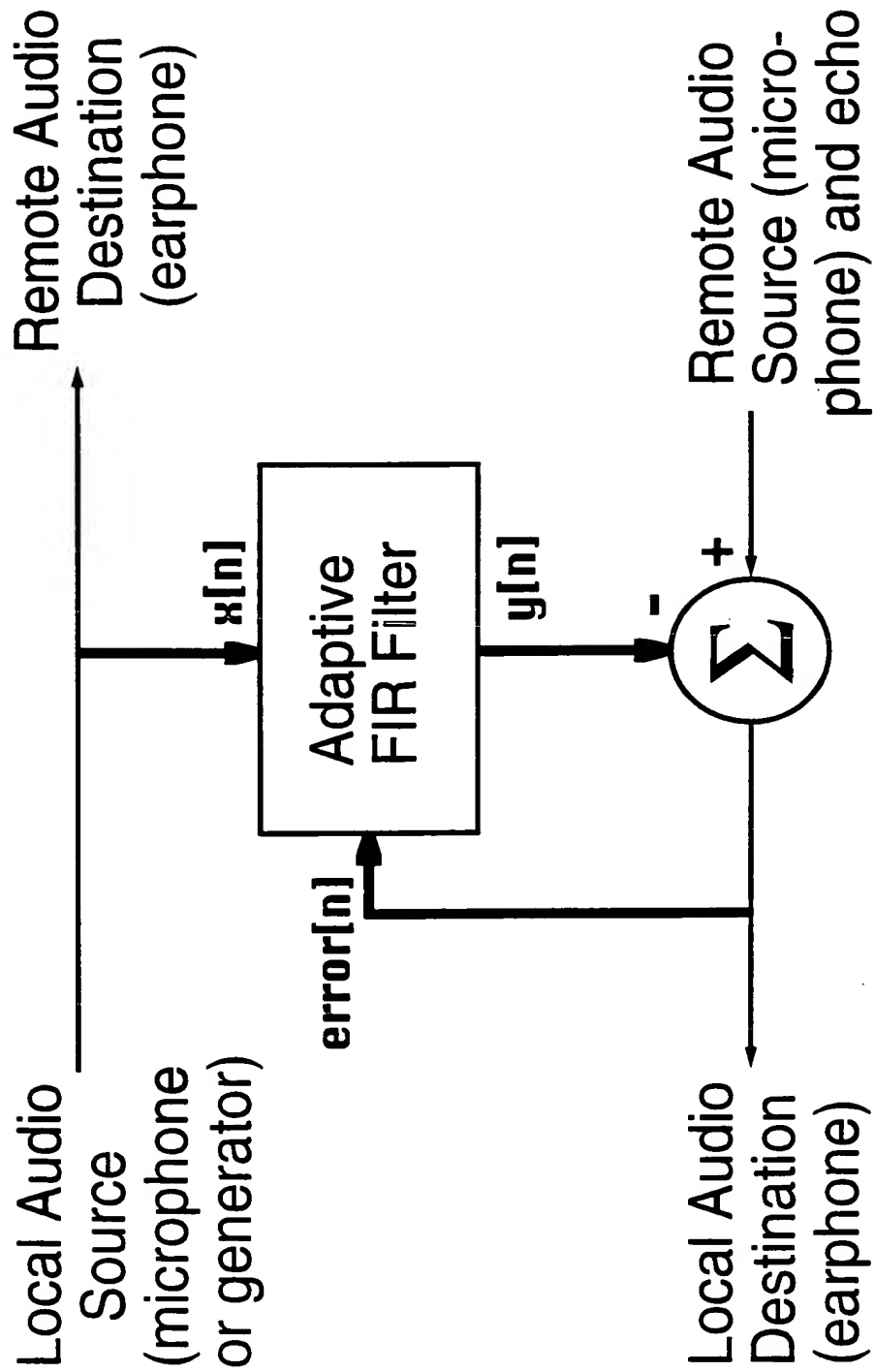


Figure 2
ADAPTIVE FIR FILTER ATTAINING STEADY STATE

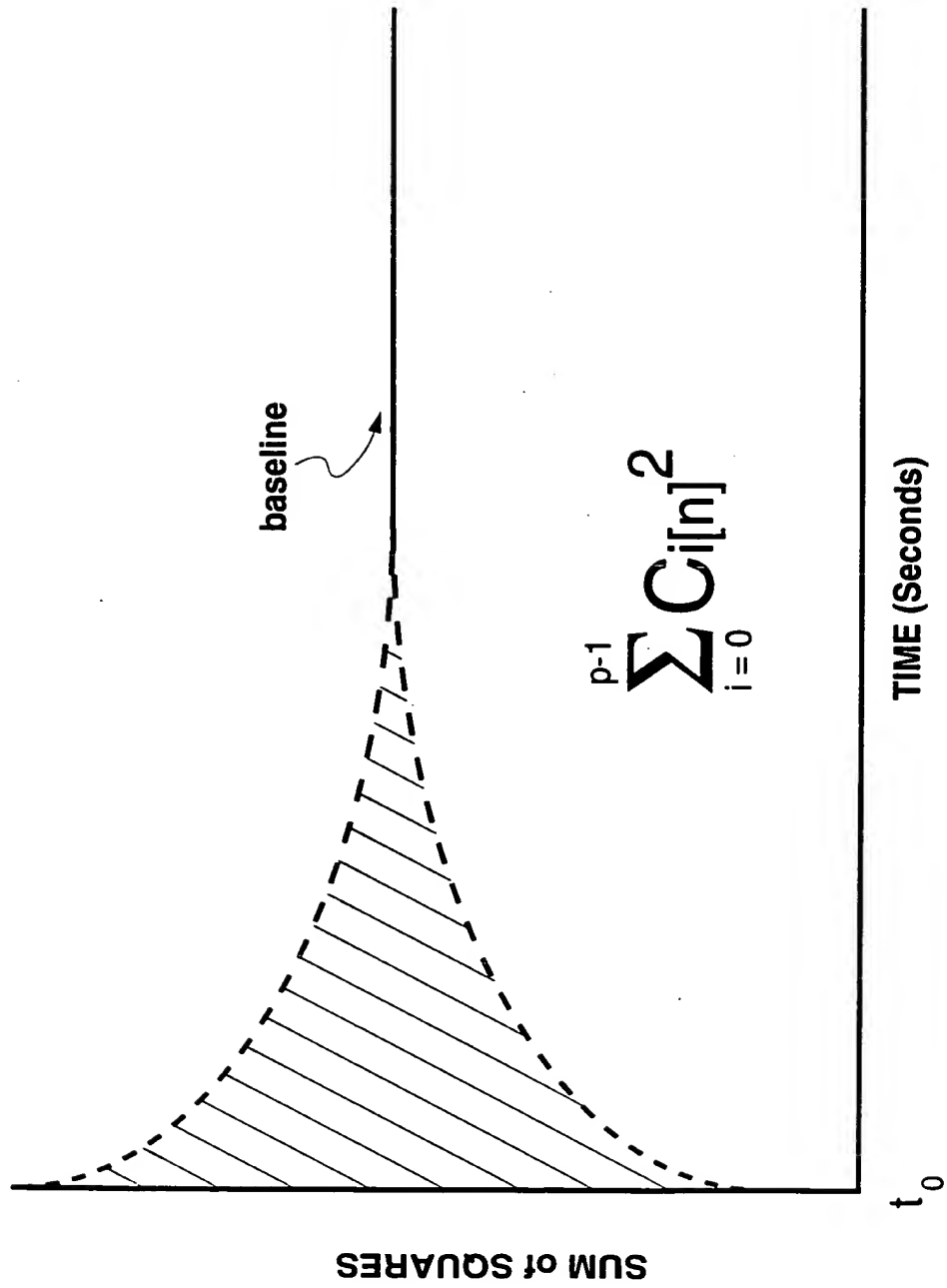


Figure 2A

TYPICAL THREE-WAY FILTER RESPONSE

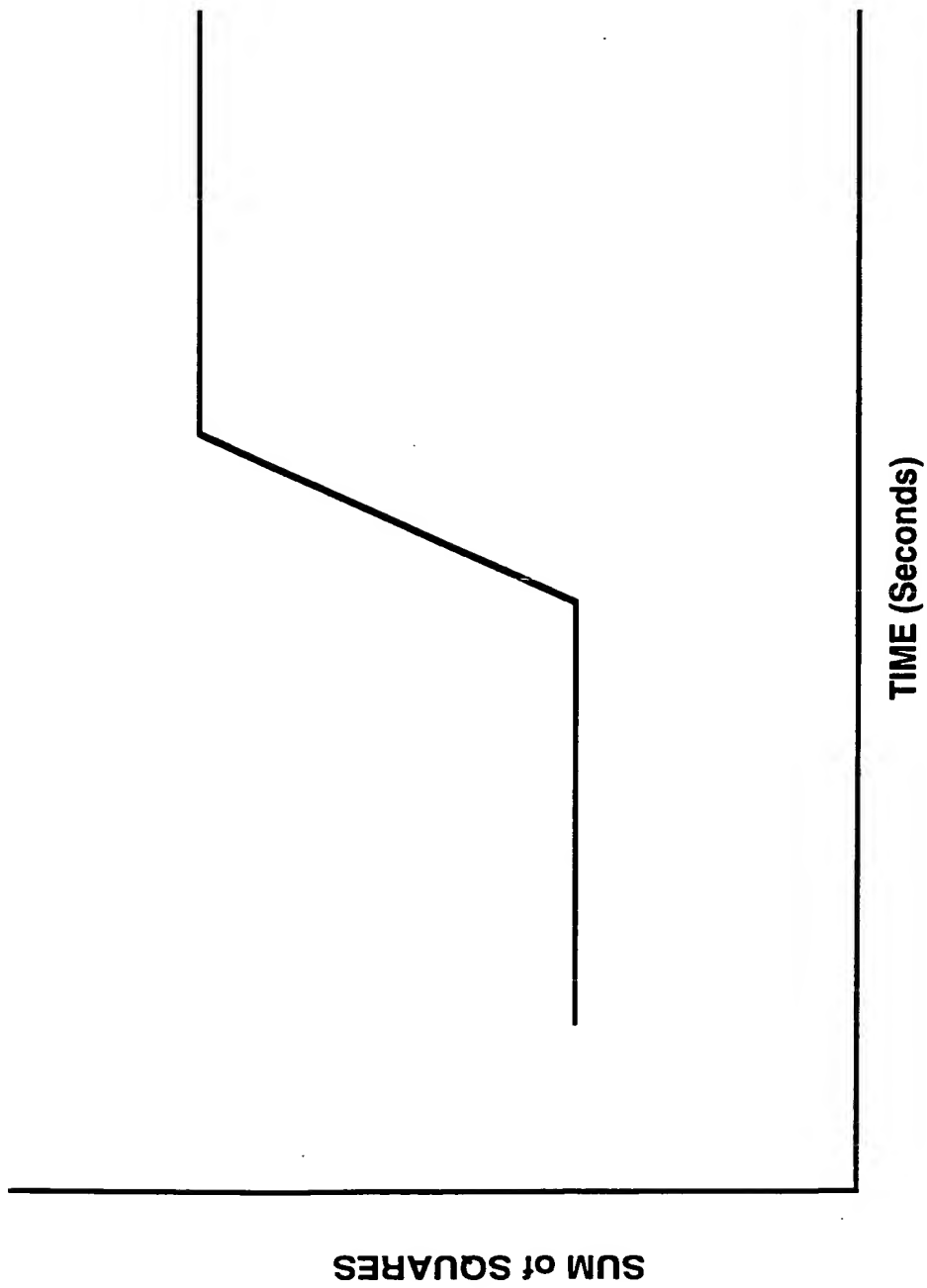


Figure 2B

TYPICAL FILTER RESPONSE WHEN CALLED PARTY
IGNORES CALL WAITING NOTIFICATION

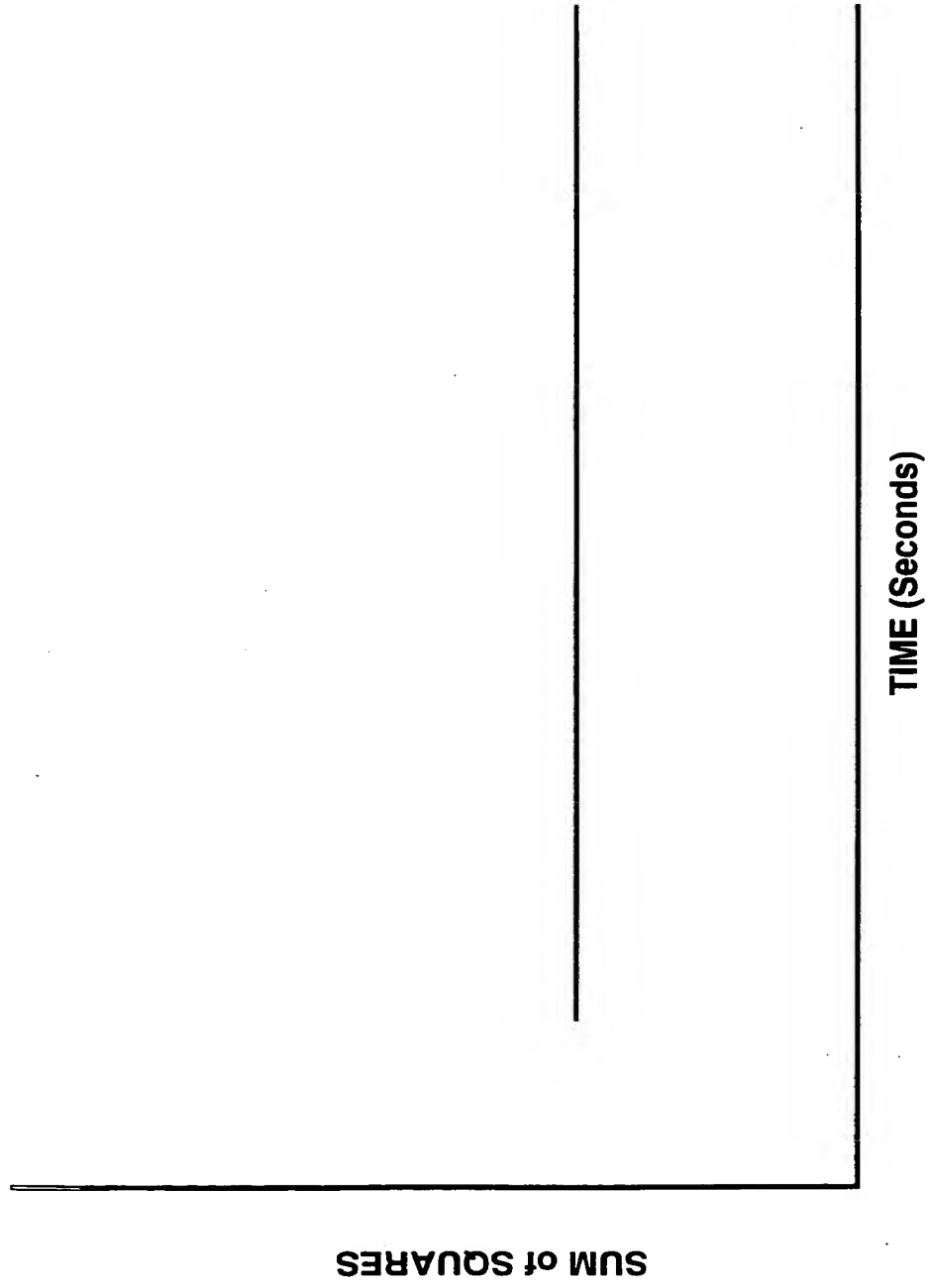


Figure 2C

TYPICAL FILTER RESPONSE WHEN CALLED PARTY
TALKS TO CALL WAITING PARTY AND THEN
RETURNS TO ORIGINAL CONVERSATION

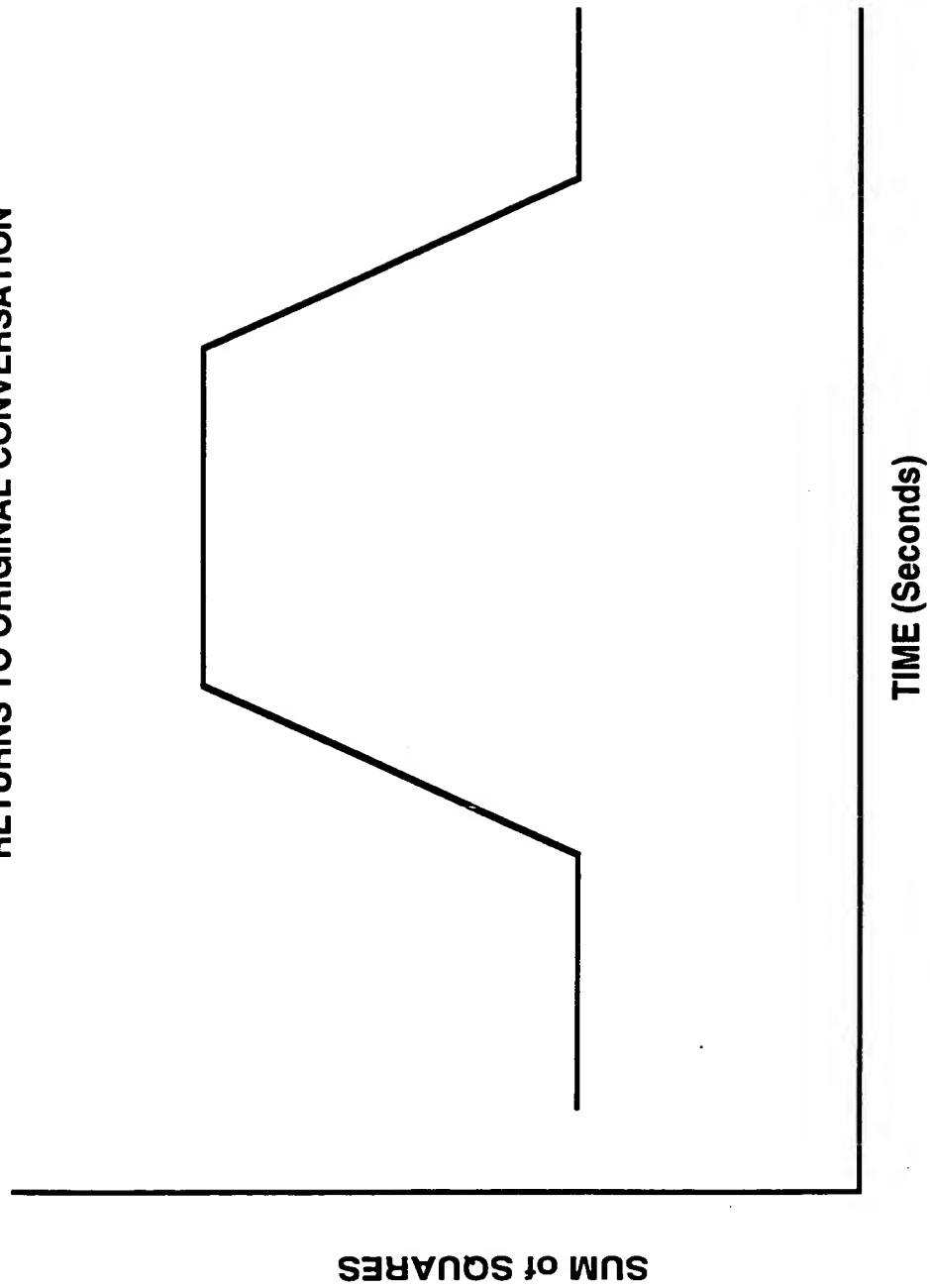


Figure 2D

TYPICAL FILTER RESPONSE WHEN CALLED
PARTY TALKS TO CALL WAITING PARTY

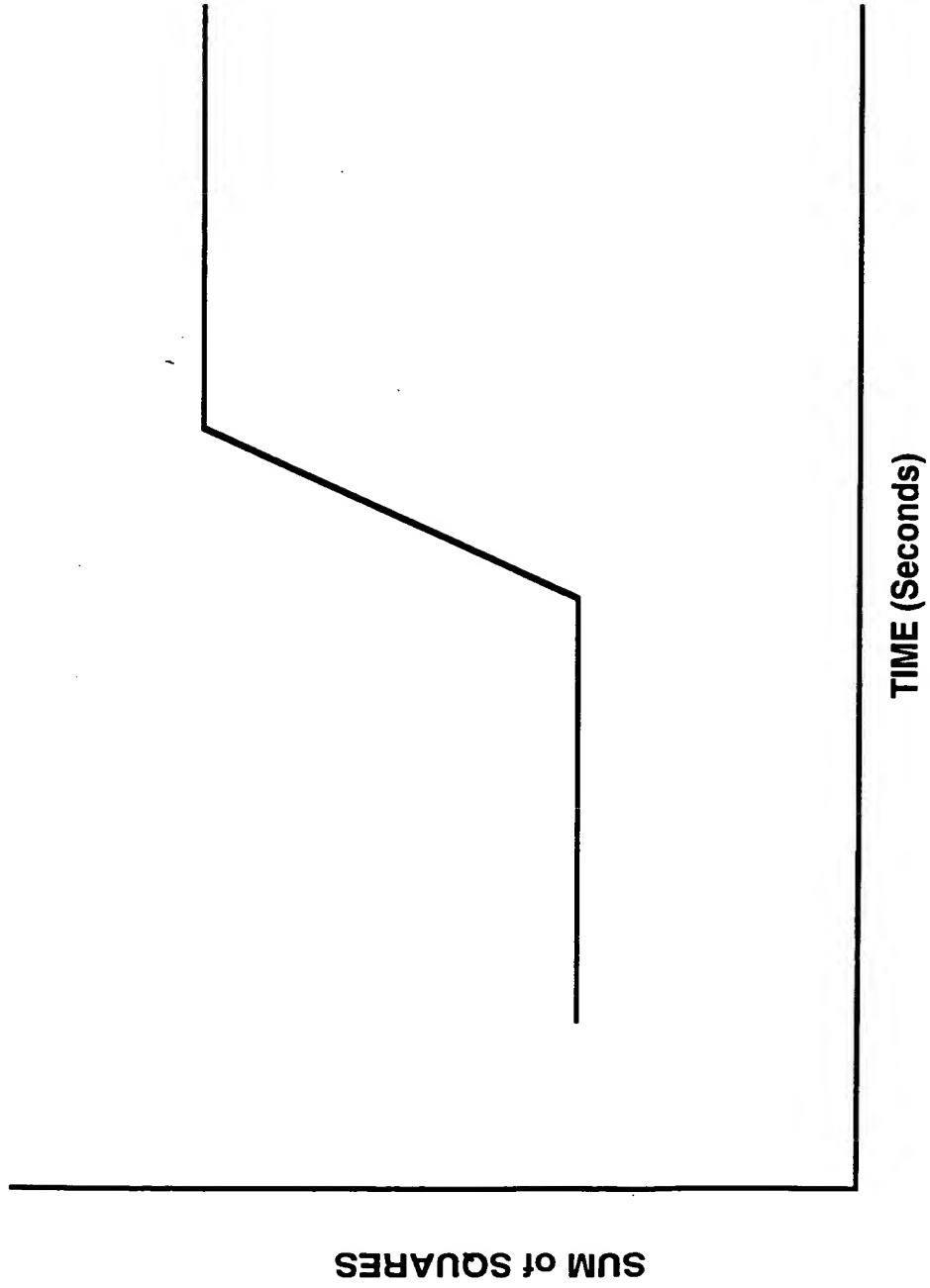


Figure 3B

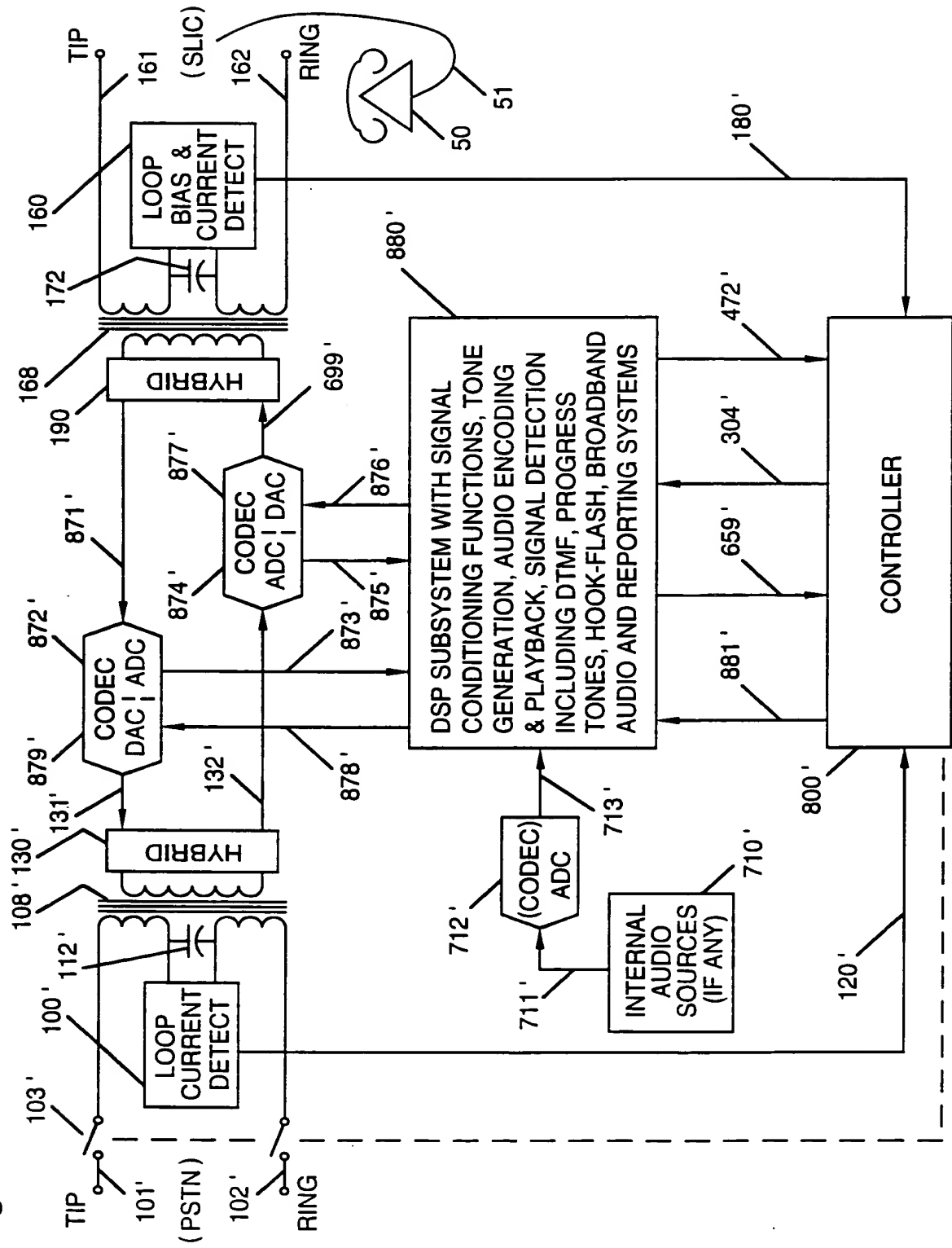


Figure 3C

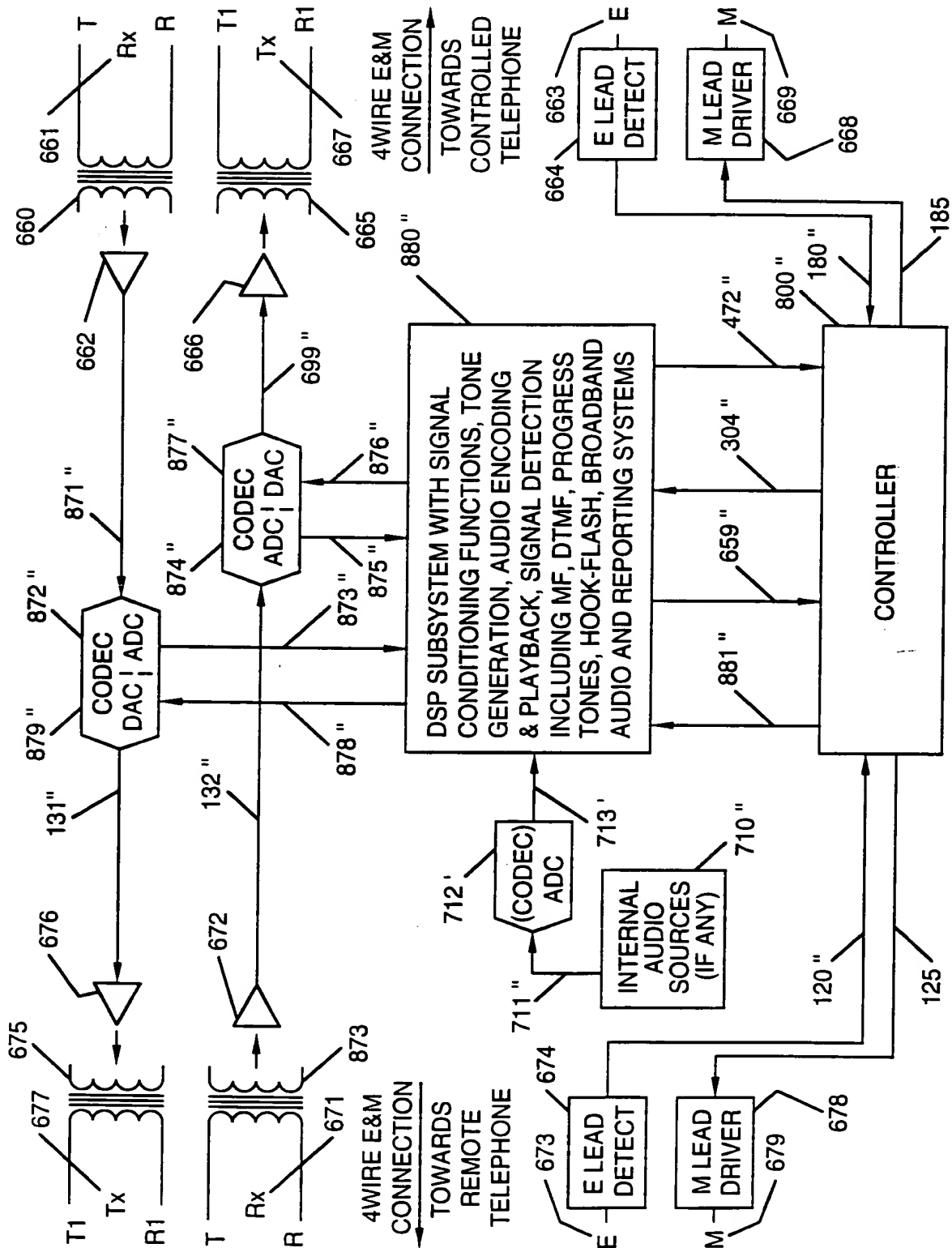


Figure 3D

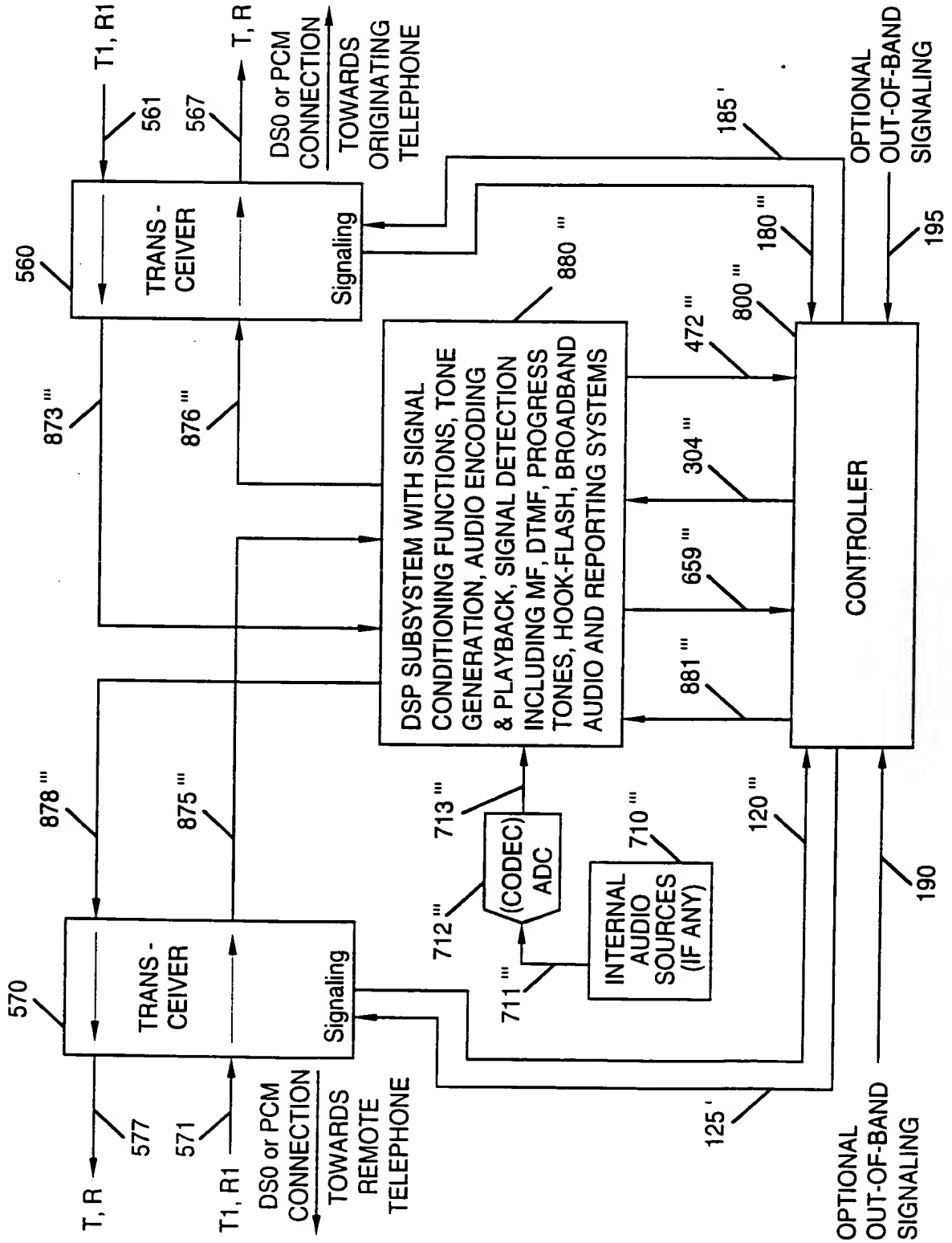


Figure 4A

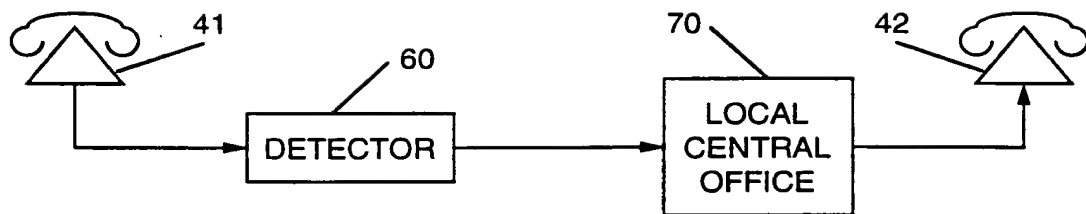


Figure 4B

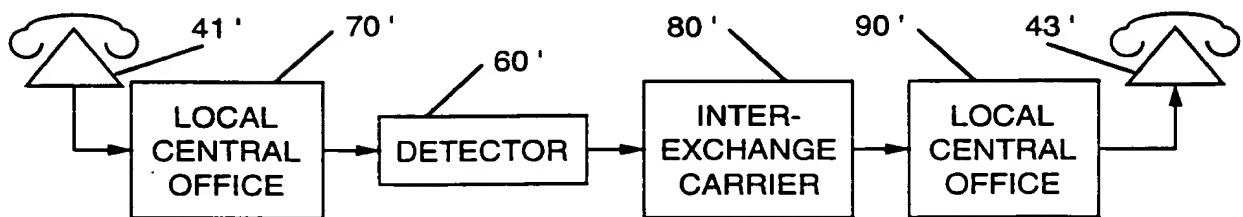


Figure 4C

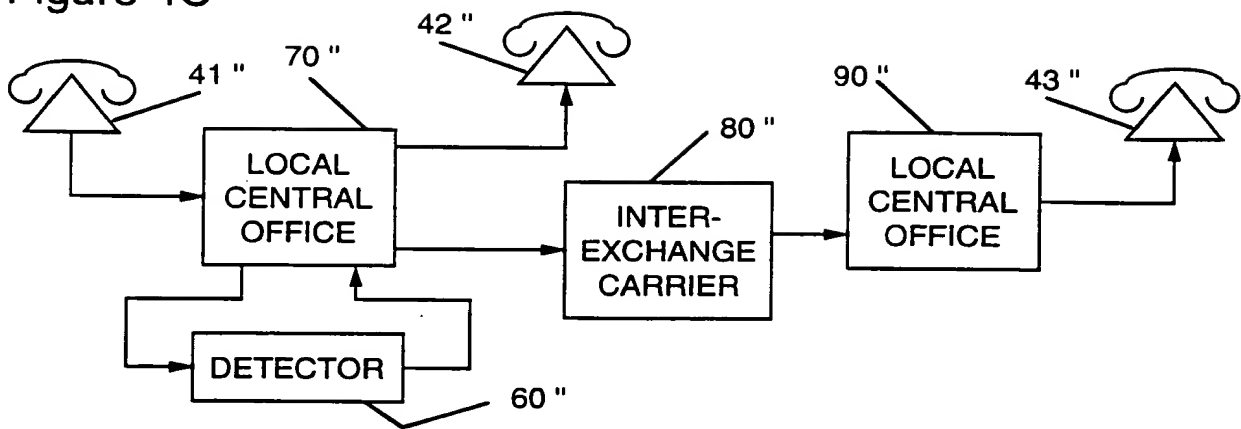
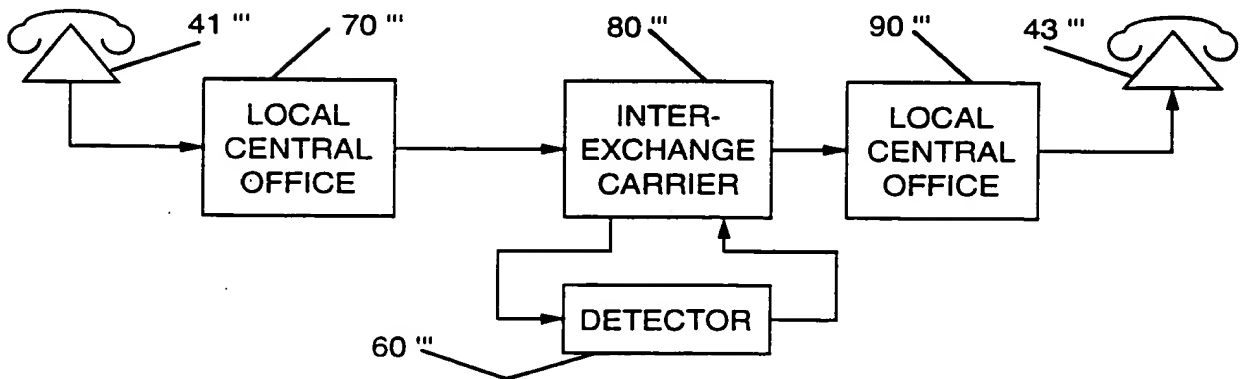


Figure 4D



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graph TD
    Start([PERIODIC SAMPLE]) --> D1{HAS BASELINE CHANGED?}
    D1 -- NO --> D2{HAS TIMER EXPIRED?}
    D1 -- YES --> D2
    D2 -- NO --> D3{HAS BASELINE RETURNED TO ORIGINAL VALUE?}
    D2 -- YES --> D3
    D3 -- YES --> D2
    D3 -- NO --> End([RESPOND])
    D3 -- YES --> D2
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